

ABSTRACT OF THE DISCLOSURE

In an adaptive equalizing apparatus for MIMO (Multi-Input Multi-Output) turbo reception, an interference component in a received signal is subtracted therefrom using a replica of an interference component in an interference canceling part 31_n, the subtracted output is filtered by a filter 32_n, to cancel the remaining interference component and to perform multi-path combining, and in a degree-of-interference-cancellation estimation part 41_n the degree of interference cancellation $\beta(i)$ is set such that it is 0 for the iteration number $i=1$, $0.8+0.05(i-1)$ for $5 \geq i \geq 2$ and 1 for $i \geq 6$, and at the beginning of each iteration filter coefficients are calculated using $\beta(i)$ and a channel estimation value in a filter coefficient calculating part 33_n and the filter coefficient thus calculated are set in the filter 32_n. An average value of soft decision symbol estimation values used in the interference canceling part may be used as β .